



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : A61B 5/0205		A3	(11) International Publication Number: WO 98/57139
			(43) International Publication Date: 17 December 1998 (17.12.98)
(1) International Application Number: PCT/NZ98/00083		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 10 June 1998 (10.06.98)		Published With international search report.	
(30) Priority Data: 328047 10 June 1997 (10.06.97) NZ		(88) Date of publication of the international search report: 18 March 1999 (18.03.99)	
(71) Applicant (for all designated States except US): AUCKLAND UNISERVICES LIMITED [NZ/NZ]; UniServices House, 58 Symonds Street, Auckland 1001 (NZ).			
(72) Inventors; and (75) Inventors/Applicants (for US only): WILLIAMS, Christopher, Edward [NZ/NZ]; 2/73B Carlton Gore Road, Grafton, Auckland 1001 (NZ). GUNNING, Mark, Ian [NZ/NZ]; 96 Hillcrest Avenue, Northcote, Auckland 1001 (NZ).			
(74) Agents: WEST-WALKER, Gregory, James et al.; Russell McVeagh West-Walker, The Todd Building, Level 7, 171-177 Lambton Quay, Wellington 6001 (NZ).			

(4) Title: BRAIN RESCUE INSTRUMENT AND METHOD

## (57) Abstract

An intelligent brain rescue instrument for identifying, monitoring, and guiding the application of brain therapies to patients with evolving brain injuries, comprises input means (101-103) for acquiring a multiple number of signals each indicative of a different biochemical or biophysical parameter of a patient, computing means (104-107) to continuously sample each of the acquired signals and display to a user on a monitor (109) at least some of the parameters, the displayed parameters being selected by system software embodying expert analytical rules as the most significant parameters, or as parameters having values indicative, or predictive at any time of actual, or potential future deterioration of the brain state of the patient.

